

## 0.5/0.8A Single-Phase GLass Passivated Bridge Rectifiers

Recifier Reverse Voltage 50V to 1000V



### MBM

### Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Suge overload ratings to 30 thru 35 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/10 seconds at 5 lbs(2.3kg)tension

### Mechanical Data

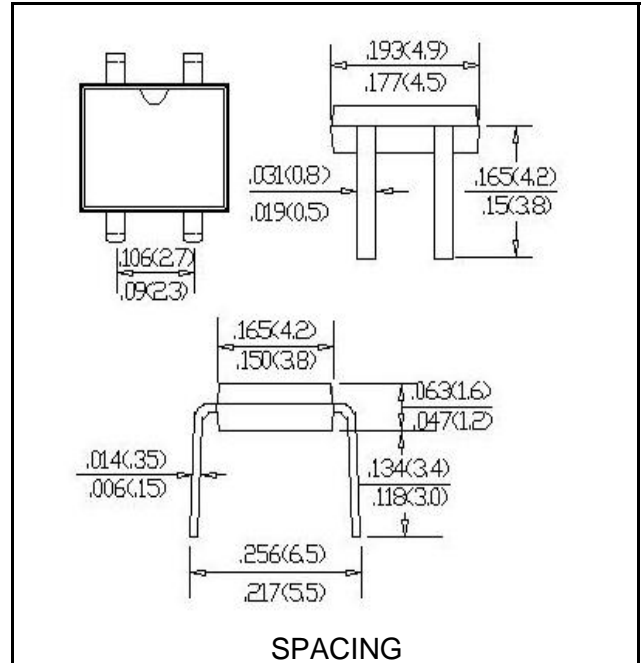
Case:Molded plastic

Terminals:Platde leads solderable per MIL-STD-750, Method 2026

Polarity:Polarity symbols molded or Marked on body

Mounting Position:Any

Weight:0.0037ounce,0.094 grams(approx)



SPACING

### Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	MB05M	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	unit	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V	
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V	
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V	
Maximum average forward rectified output current at TA=40°C	IF(AV)	0.5						0.8		A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	30						35		A
Rating for fusing(t<8.3ms)	I <sup>2</sup> t	10								A <sup>2</sup> sec
Typical thermal resistance per element(1)	ReJA	75								°C/w
Typical thermal resistance per element(2)	Cj	13.0								PF
Operating junction and stroage temperature range	TJ, TSTG	-55to+150								°C

### Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	MB05M	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	unit	
Maximum instantaneous forward voltage drop per leg at 0.8A	VF	1.1								V
Maximum DC reverse current at ratde TA=25°C	IR	5								UA
DC blocking voltage per element TA=125°C		500								

Notes:(1)Thermal resistance from Junction to case.

(2)Measured at 1.0MHz and applied reverse voltage of 4.0 V DC.

(3)Mounted on P.C.board.

## Rating and Characteristic Curves (TA=25°C Unless otherwise noted)

FIG.1-DERATING CURVE FOR

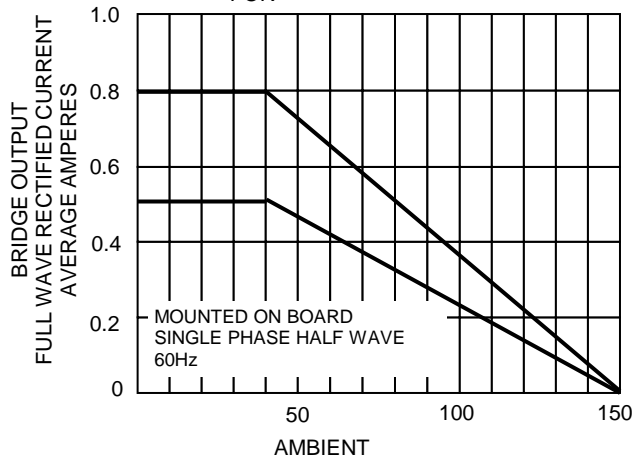


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

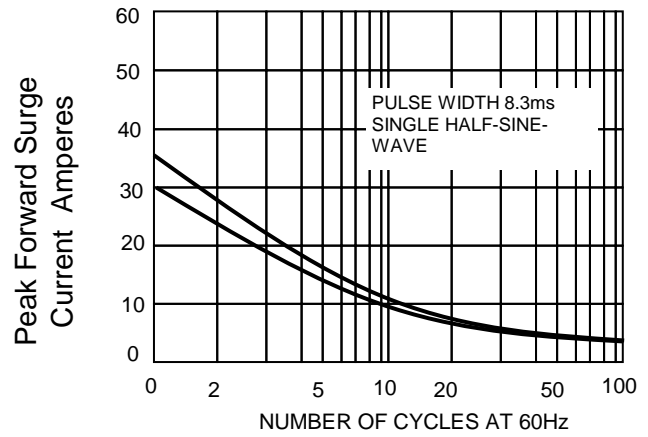


FIG.3-TYPICAL JUNCTION

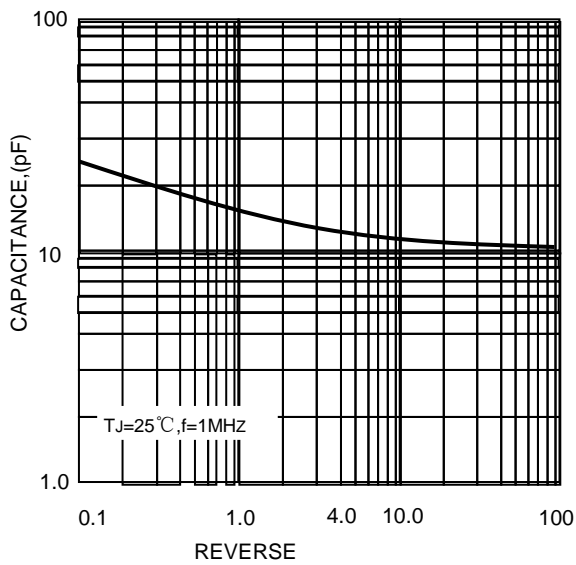


FIG.4-TYPICAL FORWARD CHARACTERISTICS

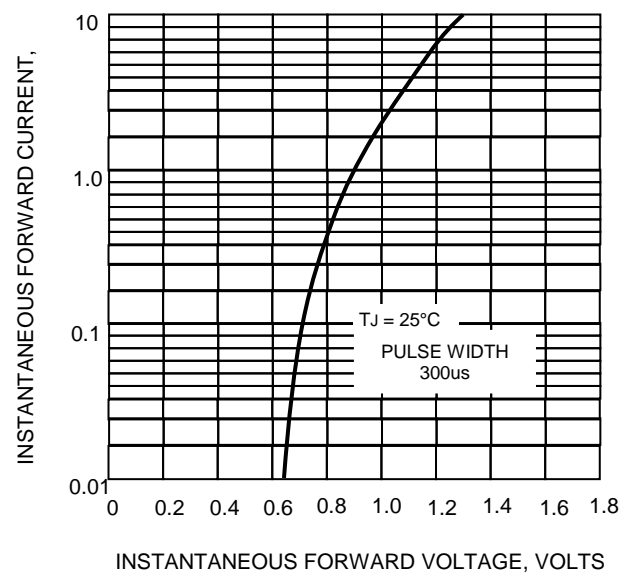


FIG.5-TYPICAL REVERSE

